

OPERATING INSTRUCTIONS

FUJI PROGRAMMABLE CONTROLLER

MICREX-F F60 SERIES

T-LINK SLAVE PLUG

Type FTP006LA

Congratulation on your purchase of a T-LINK Slave Plug for the FUJI PROGRAMMABLE CONTROLLER MICREX-F F60 series.

Make sure that the delivered unit conforms to your requirement, and also check for any missing or damaged part. Please inform our sales office in the event of any abnormality.

Carefully read this manual to enable using the unit properly.

PRECAUTIONS !!

(1) Be careful when handling these electronic devices.

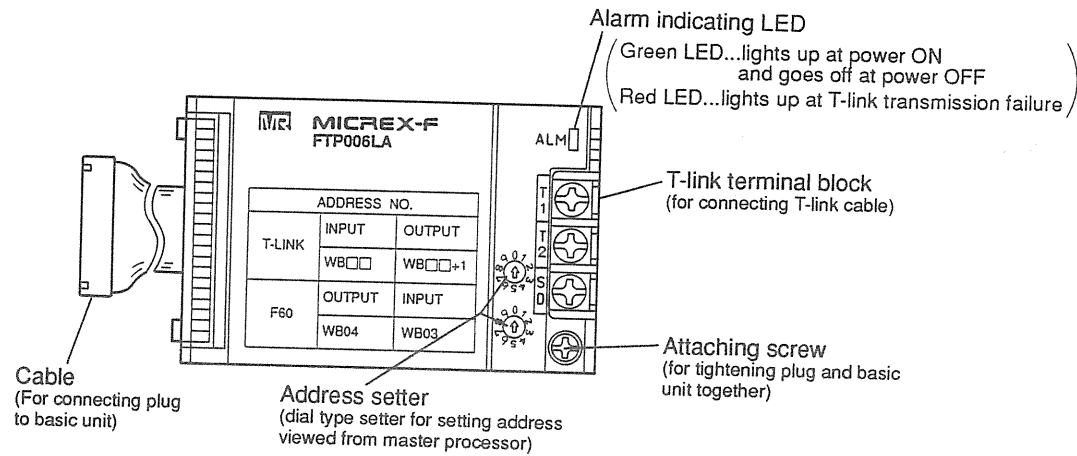
- Do not drop the device.
- Avoid installation in an environment with excessive vibration, and shock.
- Avoid installation in an environment with corrosive gases or flammable gases.
- Avoid excessive amounts of dust, fine conductive particles such as iron powder, oil mist, salt breeze and organic solvents.
- Avoid strong electric or magnetic fields.
Do not mount on a panel in which high-voltage devices (2000V or more) are mounted.
- Do not use the same power supply as the one that supplies power to a device that generates excessive noise.
- Do not operate the device under extremely high or low temperatures or excessive humidity.
Operating ambient temperature: 0 to 55°C.....avoid direct-sunlight.
Operating ambient humidity: 20 to 90% RH (no condensation)

(2) The recommended wires may be used in the T-link.

1. Outline

This unit is one of MICREX-F F60 option plugs, and is used for communications of PIO data of 32 points with other processors.

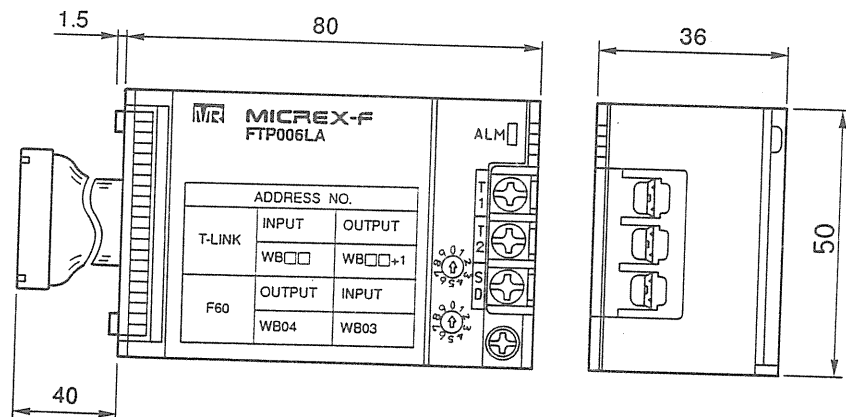
2. Component names and functions



3. Specifications

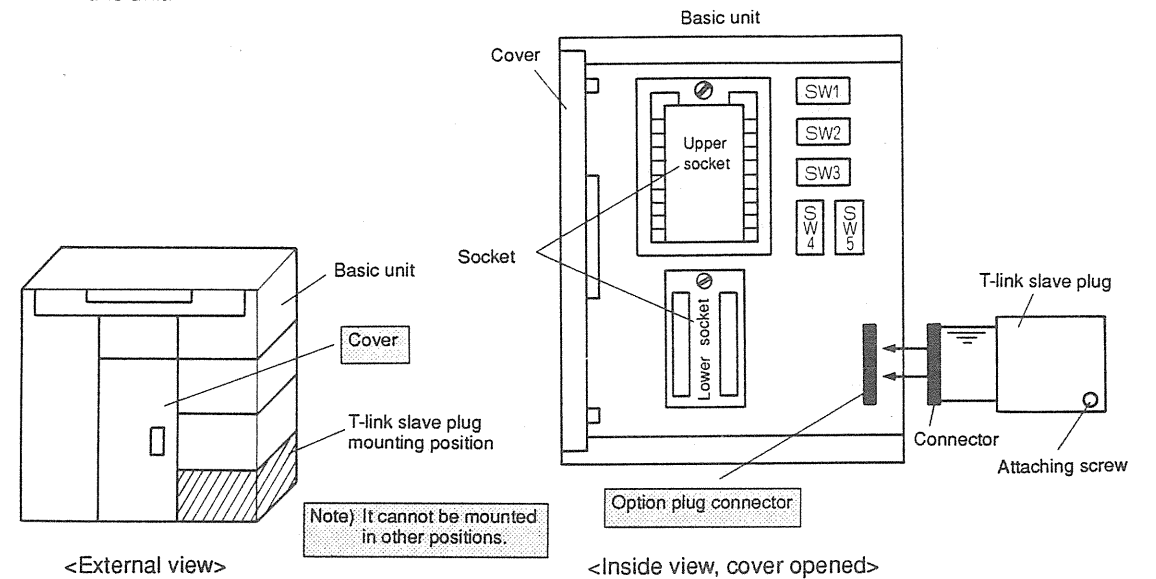
Item	Specifications	Remarks
Occupancy words	2 words (32 points)	I: 1 word, O: 1 word
Address setting	Input/output address (input address + 1)	
Weight	110g	

4. Outline dimensions



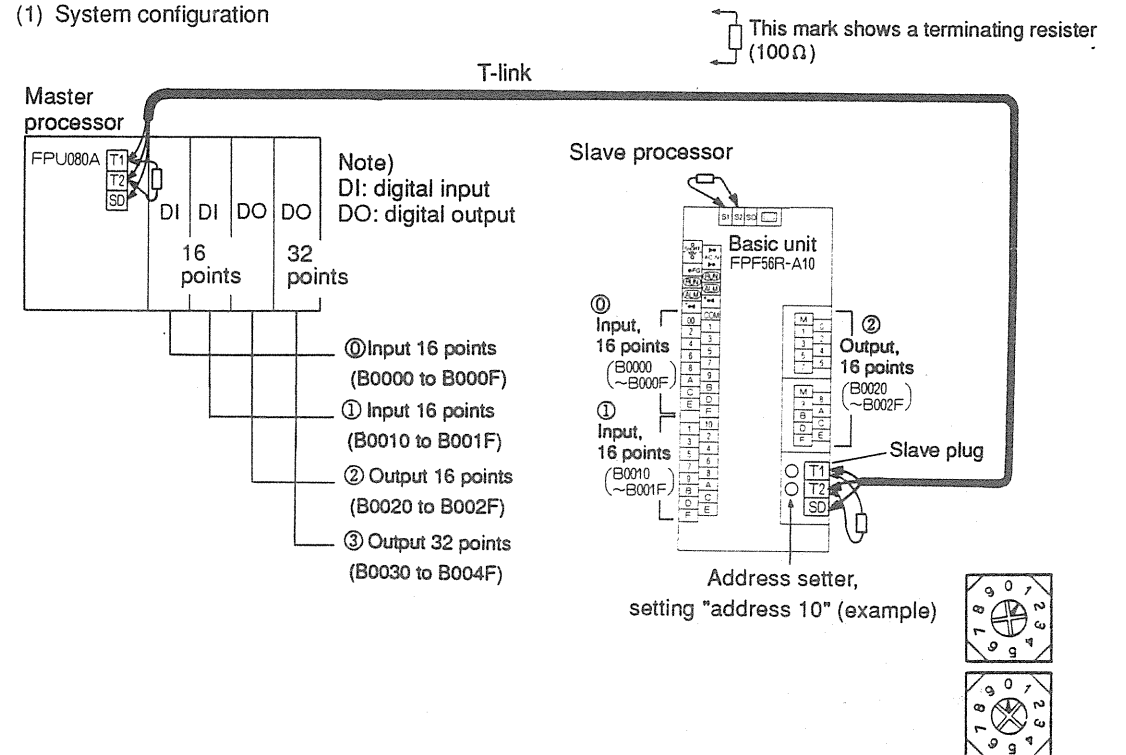
5. Installation

- Open the cover of the basic unit, and insert the connector of this slave plug into the connector for the option plug on the basic unit. (See the figure below.)
- Close the cover of the basic unit, and tighten it together with the basic unit using the attaching screw of this unit.



6. Application example

- System configuration

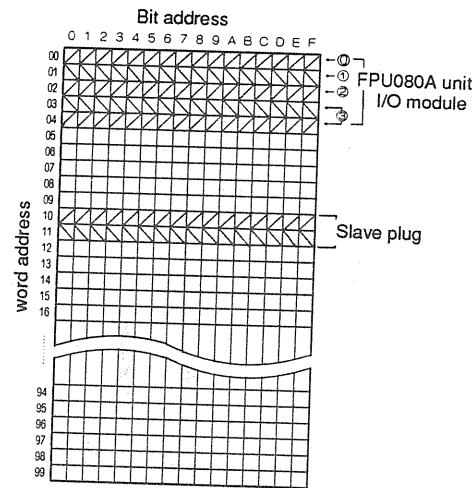


Note) When using F60 as a master processor, be sure to use T-link converter.

(2) Address assignment

■ Master processor (F80H)

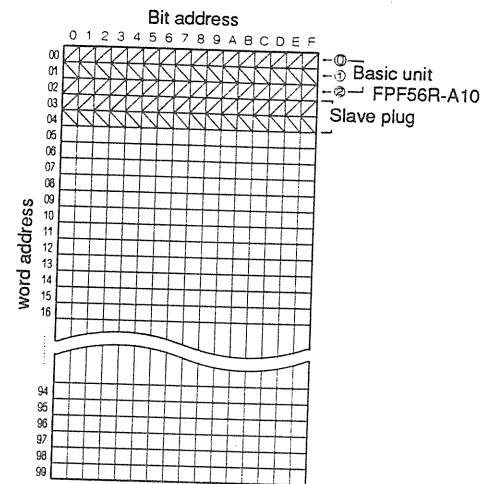
Address assignment in input/output area (B area)



Occupancy address of master processor is set by address setter.

■ Slave processor (F60)

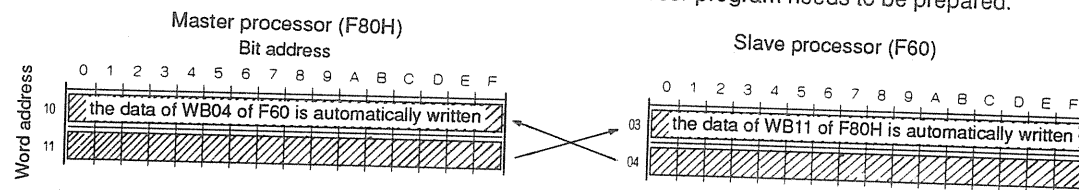
Address assignment in input/output area (B area)



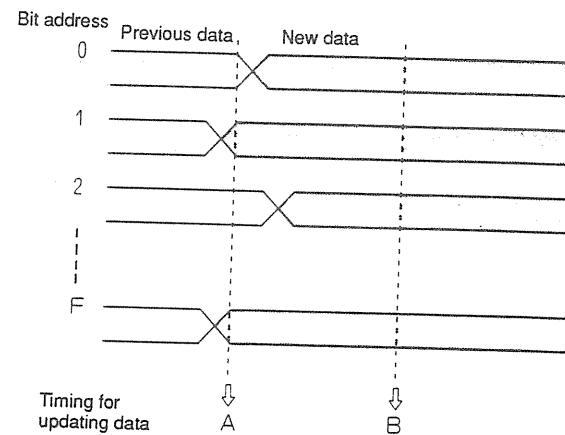
Occupancy address of slave processor is assigned automatically in WB3 to WB4.

(3) Program

To send the data of F60 to WB10 of F80H, a program for writing the data in WB04 should be prepared on the F60's user program. In this way, the data is transferred automatically to WB10 of F80H. By reading the data of WB10, F80H can confirm the status (data) of F60. To send the data of F80H to F60, a program for writing the data in WB11 on the F80H's user program needs to be prepared.



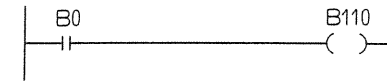
Note) Each processor is synchronized with its own scanning for processing input and output, thereby causing a slight variation in timing when the data of each bit is updated. Therefore, the bit data before and after updating are possibly mixed together by the timing of data pick-up. If it is used as a numerical data, it may become a data different from the expected data. For example, when data is read at "A" point shown in the diagram at right, it becomes an error data because all the bits are not updated. It is, therefore, necessary to read the data in the timing at "B" point, expect when data is transferred without using the T-link slave plug.



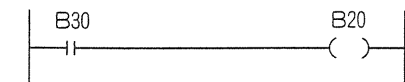
■ Bit data transfer (example)

Using the program shown below, the lamp connected to B20 of the slave processor lights up through use of the switch attached to B0 of the master processor.

● Program of master processor (F80H)



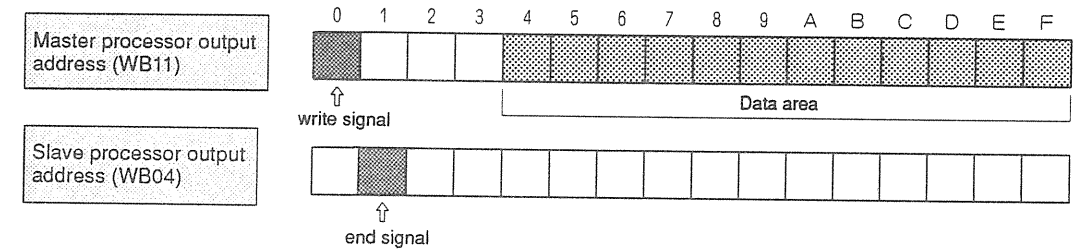
● Program of slave processor (F60)



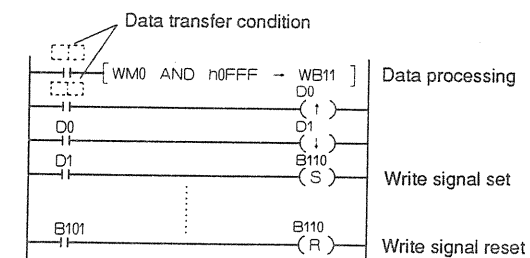
■ Word data transfer (example)

Using the program shown below, the data in WM0 of the master processor can be transferred to WM20 of the slave processor. In this case, "write signal" and "end signal" should be assigned to the bits in the words of the T-link slave flag.

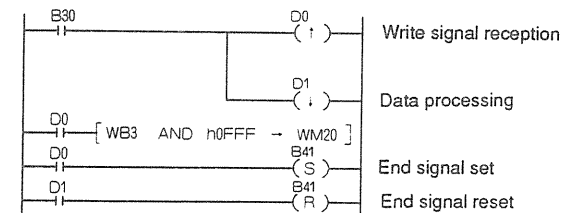
(The above is an example. Each position can be selected as desired.)



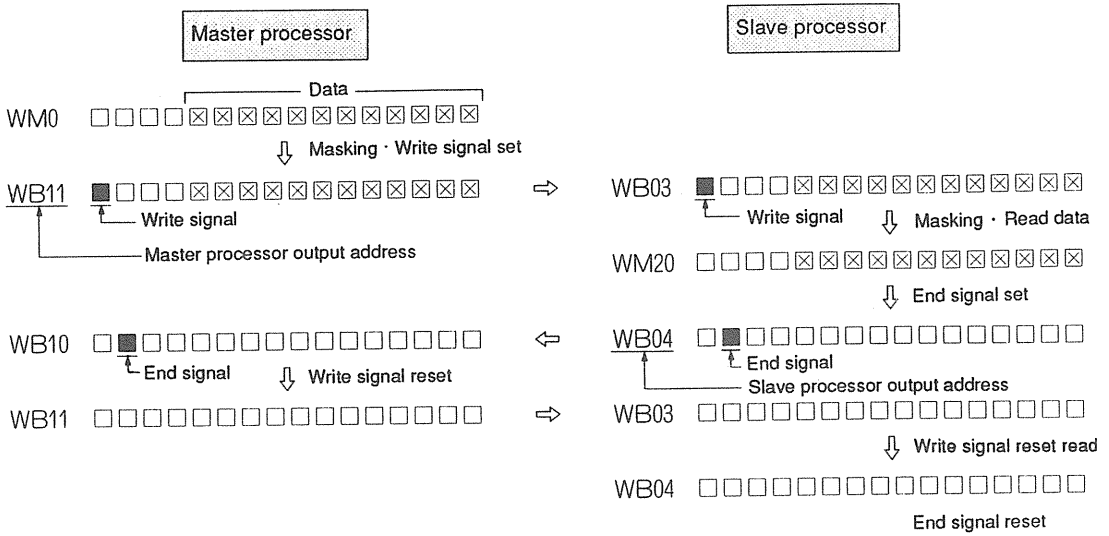
● Program of master processor (F80H)



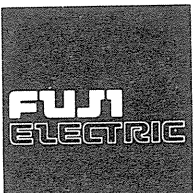
● Program of slave processor (F60)



● Movement of bit data



Note) In the above example, only the 3-digit data is transferred. But, data with more digits can be transferred, if divided.



Fuji Electric Co.,Ltd.

12-1 Yurakucho 1-chome, Chiyodaku,
 Tokyo 100, Japan
 Phone: Tokyo 3211-7111
 Telex: J22331 FUJIELEA or FUJIELEB